

## Topic Schedule for Discussion Group on AI and Jobs at Navarro ECHS

Week 1: Introduction: What Is AI and Why Does It Matter? (Explain project and class, Interviews, Survey)

- Discussion question: how would you define AI?
- Watch video: [What is AI?](#)
- Discussion question: After watching this video, has your understanding of AI changed?
- Discussion question: based on what you have learned, what are some examples of AI you interact with in your daily life? What are some potential implications of AI use?

Week 2: AI and Algorithmic Bias

- Discussion question: Based on our previous discussions, how do you think the issue of bias might impact AI? (this might include additional insights you may have thought of after reflecting on the previous discussions)
- Watch video: Joy Buolamwini's TED talk:  
[https://www.youtube.com/watch?v=UG\\_X\\_7q63rY&t=92s](https://www.youtube.com/watch?v=UG_X_7q63rY&t=92s)
- Watch video: [Algorithmic Bias and Fairness: Crash Course AI #18](#)
- Discussion question: how do you see these issues of bias affecting you or someone you know? Do you think you will face certain personal or professional challenges related to bias issues in your future career paths?
- Discussion question: Based on what we have learned about algorithmic bias, how do you think algorithmic bias might play a role in information seeking and the pursuit of knowledge?
- Watch video: [The moral bias behind your search results | Andreas Ekström](#)
- Discussion question: while this video looks at bias search results using the example of two specific people, what are some example of potentially problematic search results concerning a generalized topic
- Discussion question: to what extent do you feel that a person is responsible for scrutinizing information displayed to them on the internet? In other words, are their distinctions between the responsibility of the user and/ or the responsibilities of the information provider?

Week 3: AI and Web Search

- Natural language processing (NLP) is an interdisciplinary subfield of linguistics, computer science, and artificial intelligence concerned with the interactions between computers and human language, in particular how to program computers to process and analyze large amounts of natural language data. The goal is a computer capable of "understanding" the contents of documents, including the contextual nuances of the language within them. The technology can then accurately extract information and insights contained in the documents as well as categorize and organize the documents themselves.
- Watch video: [Natural Language Processing: Crash Course Computer Science #36](#)

- Discussion question: Do you use NLP related techniques in your life? How do you think if you cannot distinguish between a chatbot and a real person?
- Discussion question: How do you use AI to find information online?
- Hands-on activity with web search query design

#### Week 4: Generative AI and Disinformation (Survey, asynchronous)

- Definition of Generative AI: Generative AI is a type of artificial intelligence (AI) algorithm that generates new outputs based on the data on which it has been trained. Unlike typical AI systems, which are designed to recognize patterns and forecast outcomes, generative AI generates new material in the form of images, text, audio, and other media. Generative AI has numerous uses, including images, and news articles

Reference: World Economic Forum. (2023, February 13). *Generative AI: why we need to explain how algorithms work*. Retrieved from

<https://www.weforum.org/agenda/2023/02/generative-ai-explain-algorithms-work/>

- Discussion question: How would you see AI generated art? What ethical concerns are in AI generated art?
- Read TheVerge article: <https://www.theverge.com/23604075/ai-chatbots-bing-chatgpt-intelligent-sentient-mirror-test>
- Read Pew Report: <https://www.pewresearch.org/science/2023/02/15/public-awareness-of-artificial-intelligence-in-everyday-activities/>
- Watch video: [What Happens When Art Meets AI? | Benedikte Wallace](#)
- Try out yourself - Free AI Text To Images examples: [DeepAI](#) [Stable Diffusion](#)
- Discussion question: What does it mean to be an artist today given the fact that AI generates novel, painting, etc.?
- Discussion question: What threats do you see about uses of this technology?
- Discussion question: What are the ethical implication that should be taken into account?
- Discussion question: How reliable and accurate is AI generated information?
- Try out yourself - Real world examples: [Open AI - ChatGPT](#)
- Definition of ChatGPT: ChatGPT is a type of computer program that can communicate with users by providing information or generating text related to a specific topic. Users can interact with ChatGPT in natural language as they would with another person, and this type of software is commonly known as a chatbot. ChatGPT's full name is Chat Generative Pre-training Transformer, and it was developed by OpenAI, an American company that released the software on November 30, 2022.

Reference: Encyclopedia Britannica. (2023). *ChatGPT*. In Encyclopedia Britannica. Retrieved May 10, 2023, from

<https://kids.britannica.com/students/article/ChatGPT/636542>

- Definition of Disinformation: Disinformation is false information that is deliberately crafted to mislead people by presenting false facts. On the other hand, Misinformation refers to information that is incorrect or inaccurate, as it presents facts that are not true. The prevalence of misinformation and disinformation has had negative impacts on various aspects of society.

Reference: American Psychological Association. (2023). Misinformation and disinformation. Retrieved May 10, 2023, from <https://www.apa.org/topics/journalism-facts/misinformation-disinformation>

- Free AI Generative tool
- Read newspaper articles: [ChatGPT Is Dumber Than You Think - Atlantic](#) [What Students Are Saying About ChatGPT – The New York Times](#)
- Discussion question: After reading these articles, in your opinion, what made this technology popular?
- Discussion question: What flaws or issues with the technology were brought up?
- Discussion question: What problems came as a surprise or unexpected?
- Discussion question: What role can AI play in spreading and solving disinformation?

#### Week 5: AI and Job Searching

- Big picture structural issues with AI and the future of work
- Discussion question: Which jobs are at risk of being automated away?
- Discussion question: How will workers need to reskill throughout their careers to keep up with changes introduced by AI and other technologies?
- <https://www.exploringcs.org/wp-content/uploads/2019/09/AI-Unit-9-16-19.pdf>
- Discussion question: How can AI assist workers?
- Watch video [How AI is Deciding Who Gets Hired](#)
- Discussion question: How do you think AI is being used in job recruiting?
- Discussion question: Do you think the trend of AI involvement in job recruiting might impact your future career? What challenges do you think you may encounter in a future job market? Watch video: [How Social Media Can Cost Someone Their Job](#)
- Discussion question: How do you think other technologies might help or hinder people during a job hunt
- Discussion question: based on the information we learned in the video, do you think this is a fair use of technology by potential employers? How might the landscape change if AI is looking at social media profiles rather than human recruiters?

#### Week 6: AI and Job Performance

- Watch video [How Employers Could Be Spying On You While Working From Home](#)
- Discussion question: How might AI be used by your employer on the job?
- Discussion question: How might employers use AI to evaluate and assess your work in your prospective career? What ethical issues (if any) can you see here
- Discussion question: How might you be able to use AI to assist you with your job?

#### Week 7: Summary and Synthesis (also Gift Card distribution, Interviews, Survey)

- Discussion question: What did you learn from this discussion group?
- Discussion question: Did anything you learned from this discussion group surprise you?

- Discussion question: Do you think you will be able to use anything that you learned from this discussion in your career and/or in your everyday life?